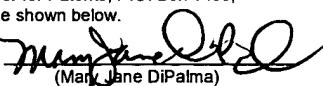


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Dated: December 12, 2003 Signature:


(Mark Jane DiPalma)

Docket No.: CIBT-P03-068
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Dudek et al.

Application No.: Not Yet Assigned

Confirmation No.:

Filed: December 12, 2003

Art Unit: Not Yet Assigned

For: REGULATORS OF THE HEDGEHOG
PATHWAY, COMPOSITIONS AND USES
RELATED THERETO

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

A copy of each reference on PTO/SB/08 are not supplied because they were previously cited by or submitted to the Office in a prior application number 09/867311, filed May 29, 2001 and relied upon in this application for an earlier filing date under 35 U.S.C. 120.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this

Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. CIBT-P03-068. A duplicate copy of this paper is enclosed.

Dated: December 12, 2003

Respectfully submitted,

By 

David P. Halstead, Ph.D.

Registration No.: 44,735

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
Sheet	1	of	5	Application Number	Not Yet Assigned
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				First Named Inventor	Henryk Dudek
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	CIBT-P03-068

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AA	US-4,007,268	02-08-1977	Voorhees		
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AC	US-4,634,706	01-06-1987	Kaneko et al.		
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AP	US-6,291,516	09-18-2001	Dudek et al.		

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
BA	EU-EP0020029A1		10-12-1980		
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BC	WO-91/07087		05-30-1991		
BD	WO-91/10743		07-25-1997		
BE	WO-92/10092		06-25-1992		
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BH	WO-93/20242		10-14-1993		
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BM	WO-94/16718		08-04-1994		
BN	WO-98/58650		12-30-1998		
BO	WO-99/52534		10-21-1999		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	CA	Alcedo et al., "The drosophila smoothened gene encodes a seven-pass membrane protein, a putative receptor for the hedgehog signal," <i>Cell</i> 86:221-232 (1996)			T ²
	CB	Altaba, "Restrictions to floor plate induction by hedgehog and winged-helix genes in the neural tube of frog embryos," <i>Mol. Cell. Neurosci.</i> 6:106-121 (1995)			
	CC	Apelqvist et al., "Sonic hedgehog directs specialized mesoderm differentiation in the intestine and pancreas," <i>Curr. Biol.</i> 7:801-804 (1997)			
	CD	Bellusci et al., "Involvement of Sonic hedgehog in mouse embryonic lung growth and morphogenesis," <i>Development</i> 124:53 (1997)			
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	CN	Echelard et al., "Sonic hedgehog, a member of a family of putative signaling molecules, is implicated in the regulation of CNS polarity," <i>Cell</i> 75:1417-1430 (1993)			
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	CW	Freund et al., "Efferent synaptic connections of grafted dopaminergic neurons reinnervating			

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	CF1	Hooper et al., "The drosophila patched gene encodes a putative membrane protein required for segmental patterning," Cell 59:751-764 (1989)	
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	CK1	Johnson et al., "Exotopic expression of sonic hedgehog alters dorsal-ventral patterning of somites," Cell 79:1165-1173 (1994)	
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	CQ1	Lee et al., "Autoproteolysis in hedgehog protein biogenesis," Science 266:1528-1537 (1994)	
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	CS1	Lench et al., "Characterization of human patched germ line mutations in naevus basal cell carcinoma syndrome," Human Genetic., 100(5-6):497-502 (1997)	
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	CU1	Lopez-Martinez et al., "Limb-patterning activity and restricted posterior localization of the amino-terminal product of sonic hedgehog cleavage," Curr. Biol. 5:791-795 (1995)	
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CW1	Mariño et al., "Conservation in hedgehog signaling: induction of a chicken patched homolog by sonic hedgehog in the developing limb," <i>Development</i> 122:1225-1233 (1996)	
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CY1	Marti et al., "Requirement of 19K from the sonic hedgehog for induction of distinct ventral cell types in CNS explants," <i>Nature</i> 375:322-325 (1995)	
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CF2	Omnell et al., "Expression of veratrum alkaloid teratogenicity in the mouse," <i>Teratology</i> 42:105-119 (1990)	
CG2	Orenic et al., "Cloning and characterization of the segment polarity gene <i>cubitus interruptus</i> dominant of drosophila," <i>Genes and Development</i> 4:1053-1067 (1990)	
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CJ2	Perrimon, "Serpentine proteins slither into the wingless and hedgehog fields," <i>Cell</i> 86:513-516 (1996)	
CK2	Placzek et al., "Induction of floor plate differentiation by contract-dependent, homeogenetic signals," <i>Development</i> 117:205-218 (1993)	
CL2	Porter et al., "Hedgehog patterning activity: role of a lipophilic modification mediated by the carboxy-terminal autoprocessing domain," <i>Cell</i> 86:21-34 (1996)	
CM2	Porter et al., "The product of hedgehog autoproteolytic cleavage active in local and long-range signalling," <i>Nature</i> 374:363-366 (1995)	
CN2	Riddle et al., "Sonic hedgehog mediates the polarizing activity of the ZPA," <i>Cell</i> 75:1401-1416 (1993)	
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CP2	Roelink et al., "Floor plate and motor neuron induction by different concentrations of the amino-terminal cleavage product of sonic hedgehog autoproteolysis," <i>Cell</i> 81:445-455 (1995)	
CQ2	Roelink et al., "Floor plate and motor neuron induction by <i>vhh-1</i> , a vertebrate homolog of hedgehog expressed by the notochord," <i>Cell</i> 76:761-775 (1994)	
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	CX2	von Schroeder et al., "The use of polyactic acid matrix and periosteal grafts for the reconstruction of rabbit knee articular defects," J Biomed Mater Res 25:329 (1991)	
	CY2	Wakitani et al., "Repair of rabbit articular surfaces with allograft chondrocytes embedded in collagen cell," J. Bone Jt Surg 71B:74 (1989)	
	CZ2	Wang et al., "Induction of dopaminergic neuron phenotype in the midbrain by sonic hedgehog protein," Nature Med. 1:1184-1188 (1995)	
	CA3	Weinberg et al., "Developmental regulation of zebrafish MyoD in wild-type, no tail and spadetail embryos," Development 122:271-280 (1996)	
	CB3	Xie et al., "Mutations of the patched gene in several types of sporadic extracutaneous tumors," Cancer Res 57:2369-2372 (1997)	
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	CD3	Yamada et al., "Control of cell pattern in the neural tube: motor neuron induction by diffusible factors from notochord and floor plate," Cell 73:673-686 (1993)	
	CE3	Murone et al., "Sonic hedgehog signaling by the patched-smoothened receptor complex," Current Biology 9:76-84 (1999)	
	CF3	Epstein et al., "Antagonizing cAMP-dependent protein kinase A in the dorsal CNS activates a conserved sonic hedgehog signaling pathway," Development 122:2885-2894 (1996)	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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